

Applicant: Markku Kyytsonen
Application No.: 10/516,572
Art Unit: 3725

In the Specification

Please amend ¶ [0024] as follows:

[0024] Between the uppermost and the lowermost rolls there are five intermediate rolls 4, of which the middlemost intermediate roll 4; 43 is likewise attached directly to the calender frame 7 in a similar way as the uppermost and the lowermost rolls. The outermost intermediate rolls, i.e. the first intermediate roll 4; 41 and the fifth intermediate roll 4; 45, seen from the first, i.e. the uppermost roll 3; 31 of the set of rolls, are heated chill rolls. The said outermost intermediate rolls 4; 41, 45 are hard-surfaced rolls, which are rotatably pivoted to the bearing houses 41a, 45a from their ends. The intermediate rolls between the outermost intermediate rolls 41, 45 and the fixedly attached intermediate roll 43, i.e. the second intermediate roll 4; 42 and the fourth intermediate roll 4; 44 are flexible-surfaced polymer-coated rolls. The middlemost intermediate roll is fixedly attached to the calender frame in a similar way as the uppermost and the lowermost roll. The middlemost intermediate roll is a smooth-surfaced metal roll.

[0026] In Figure 1, the calendering of the fibre web W is initiated, and the roll nips N are closed. The roll nips N are closed by loading the internal loading devices 31a, 32a of the upper and lower roll 3; 31, 32. The loading devices 31a, 32a are loaded by directing hydraulic liquid to the shoe elements so that the hydraulic liquid forms a lubricating liquid layer between the shoe elements and the casings of the upper and lower rolls rotating on them. ~~As the shoe elements of the lower roll and the upper roll are loaded, the casing of the said rolls extends outwards. In the figure, the location of the casings 31b' and 32b' of the rolls 31, 32 is shown by a broken line in a case, in which the shoe~~

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~~elements are not being loaded, and the location of the roll casings 31b, 32b is shown by a solid line in a case, in which the shoe elements are being loaded.~~
Upon extending, the casing 32b of the lower roll pushes close the roll nips N; Na2, Nb2 and Nc2 above it. Respectively, the casing 31b of the upper roll pushes close the roll nips N; Na1, Nb1 and Nc2 below it, as it extends. By loading the shoe elements of the upper and lower roll with a desired force, a linear pressure of about 0–500 kN can be generated to the roll nips N.